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FEBRUARY - 1950



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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE

808 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA, 7, PENNSYLVANIA

Estate of C. J. STOVER, Proprietor

A. S. ROSSITER, Editor

E. E. COX, Circulation Manager

Entered As Second Class Matter November 23, 1923, at the Post
Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 31 FEBRUARY 1950 Number 8

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States	-	-	-	-	-	\$2.00 Per Year
Canada	-	\$3.00 Per Year	Foreign Countries	-	\$3.00 Per Year	
Back Copies	-	.35 Each	Single Copies - (Current)	.25 Each		
			(Payable in U. S. Funds)			

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THE PATRIOTIC MONTH

The month of February to all Americans stands for patriotism, for in it we celebrate the birthdays of two great men—George Washington on February 22nd, Abraham Lincoln on February 12th.

We think of these two men as being wise, and kind, and altogether perfect!

What we should remember is that both had their troubles, very grievous ones, their disappointments, their frustrations. Both made mistakes—even as you and I—and regretted them; both were at times misjudged; both were blamed for circumstances not of their making.

It doesn't do to place our heroes on too high pedestals; bring them down to our own level, and we still can think of them as wise and kind and *great*.

If there is one attribute common to both Washington and Lincoln that should endear them to us more than another, it is the fact proven by history, that neither of these men craved power nor glory for themselves; they were serving their country to the best of their ability.

OFF STANDARD?

In the "asbestos rush" caused partly by shortage in certain grades, and enhanced by the Canadian Mine Strike last year, some asbestos fibres are being offered in the market by new small firms who figure that by a little trading they can make a little money. Often they do not know, or do not care, whether the material offered is up to standard or not; in fact many of them do not know exactly what the standard is.

Nor do they understand the imperative need for exactness in quality. A little sand or dust means nothing to them and they are surprised when the buyer refuses the material because it is not up to standard quality, resulting in all sorts of complications for the seller if not for the buyer.

We touched on this matter last month, on page 24, "South African Asbestos Notes". It was reported that

some of the shipments of fibre actually contained "rocks" which of course could not be condoned either as an accident or charged to inexperience or ignorance of quality.

In such cases buyers suffer as well as sellers. As a safeguard to both, buyers are requested to report to us any attempt on the part of sellers to pass off asbestos fibre containing an excess amount of sand, dust or dirt, whether accidentally or otherwise. The name of the seller should be included in the report, so that attention may be called to the off quality material and a chance for explanation and adjustment given.

DIRECTORIES

Thru the years we have used directories of one sort or another from which to obtain all kinds of information. In fact we have found that directories were most useful—a great deal of information can be obtained with little effort.

We have many times answered inquiries from readers by reference to a good directory, when the inquirer could have gotten it just as easily and more quickly had he consulted the directory in the first place.

One of the most useful of directories is the Thomas Register of American Manufacturers (published by the Thomas Publishing Co., 461 Eighth ave., New York 1, N. Y.) We understand the 1950 (40th) edition has been completed and is now ready for distribution. You can refer to it in any large public library. Or if you have sufficient use for it, you can purchase a copy for \$15.00, provided you place your order early.

There are other Directories equally as useful in their field. It is well to get the directory habit and learn to use them to the best advantage.

... —

You cannot help men permanently by doing for them what they could and should do for themselves.

—Abraham Lincoln.

ASBESTOS PRODUCTION

XIV. Various Countries'

Continuing our report on Asbestos Production in various countries from our December 1949 number, the following data is given on several countries, in some of which no development work has been done, and no production ever reported. The list of countries reported to contain asbestos deposits, many of which are of the chrysotile variety, is rather astounding and shows that asbestos is found in most parts of the globe.

Kenya Colony (Africa). There is little data available concerning the asbestos deposits in Kenya Colony, altho the U. S. Minerals Yearbook records production as follows:

1938	5 tons	1943	354 tons
1939 .....	..	1944	376 tons
1940 .....	..	1945	429 tons
1941	235 tons	1946	182 tons
1942	338 tons	1947	642 tons

Our August 1943 number reports an asbestos area in West Suk, Kenya Colony, as being worked and a pilot plant being built to manufacture the low grade asbestos into boards for the building trades.

Korea. According to report in our August 1946 number asbestos mining was not reported in Korea until 1933. The material is said to be short fibre and poor quality. A further report in February 1947 says the mines were worked during World War II but the fibre is short. Quite a quantity was apparently mined in 1943, 1944 and 1945, production figures being given in Mineral Trade Notes published by the U. S. Bureau of Mines. Figures follow for all years for which data was available.

1933	13 tons	1940 .....	..
1934	4 tons	1941 .....	..
1935	7 tons	1942 .....	..
1936	76 tons	1943	5,853 tons
1937	77 tons	1944	1,436 tons
1938	315 tons	1945	5,268 tons
1939 .....	..	

A★F★D



The Jeffrey Open Pit Mine of J-M at Asbestos, Quebec. Measures $\frac{1}{2}$ mile in width, and 358 feet at deepest point.

ASBESTOS FIBRE DIVISION **Canadian Johns-Manville Limited**

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(Telephone: Marquette 2421)

Montreal, P. Q., Canada

No production has ever been reported from Mexico. *Newfoundland*. There is definitely known to be a deposit of asbestos in Newfoundland on which some de-

All of this was probably of the anthophyllite variety.

It is also reported that 11,051 short tons of asbestos were imported by Korea in 1938 but nothing is known as to the variety, grade or quality, nor even the use to which it was put.

Madagascar. This island, as probably all our readers know, lies off the coast of Southeastern Africa, opposite Mozambique.

A report in August 1928 "ASBESTOS" says that asbestos of good quality and chrysotile variety (which we doubt) occurs in Madagascar. In August 1924 we reported that numerous deposits are found, particularly near Maevatana in the north central part of the island, northwest of Tamatave on the eastern coast, south and west of Ambositra and near Fianarantsoa in central Madagascar, and that all occurrences are of the amphibole type (which is much more likely). Production is given by the U. S. Mineral Trade Notes and Chapter from U. S. Minerals Yearbook as follows:

1941	3 tons	1944	3 tons
1942	12 tons	1945	1 ton
1943 .....	..	1946	1 ton

Mexico. While from time to time reports come to us of deposits of asbestos in Mexico, so far as we know no development of any kind has been undertaken. Our first report on Mexico is given in October 1922. Rumors were common among the Indians of deposits but they never could be located by anyone really interested.

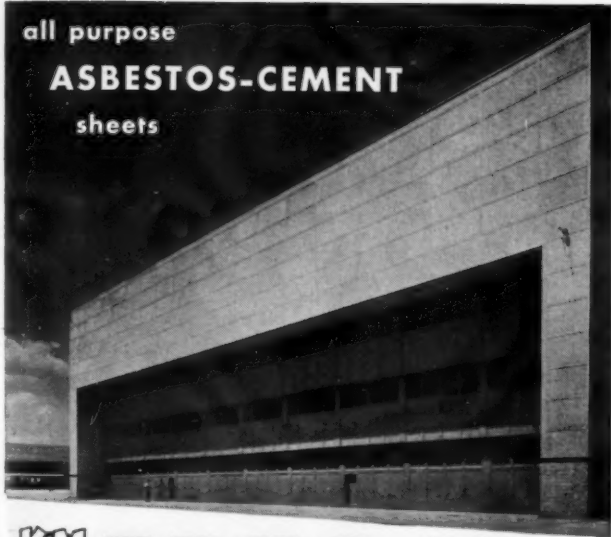
In May 1943 specimens were sent us by Lucio de la Garza; these specimens were supposed to come from deposits in the Canon Novillo, near Ciudad, Victoria, Tamaulipas, Mexico. We understand the deposits were rather inaccessible.

The U. S. Bureau of Mines Bulletin 403, tells of a good sample of mountain cork (a variety of asbestos) obtained from a deposit near San Luis Potosi, and states that a deposit has also been reported from the State of Puebla.

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"ASBESTOS" — February 1950

Page 7

velopment work has been done but no production ever resulted. The deposit is located in the Lewis Brook area. W. E. Seibert, who is interested in this property, has reported to us some progress in development and we are now waiting for his next report which will probably not be received until later in the spring as nothing much can be accomplished in the wintertime. The material is said to be good quality but whether the quantity and accessibility will be found sufficiently favorable to push the development of the deposit is now the question.

New Zealand. "Chrysotile asbestos in veins as wide as 3 inches occurs in a serpentine area at least 3 miles long near Mount Arthur in the upper Takaka district of New Zealand," reports the U. S. Bureau of Mines Bulletin 403, and goes on to state that both cross fibre and slip fibre are available, and that "the deposit is evidently extensive and is undeveloped."

Practically the same statement appears in the New Zealand Journal of Science and Technology, August 1923.

In our April 1935 number we reprint a statement by the Christ church (N. Z.) "Star" which states that a Cromwell asbestos syndicate is interested in the discovery of an extensive deposit of asbestos, they having 300 acres on the Kawarau face of Mount Pisa. A sample of half a cwt. was sent to a Dunedin (N. Z.) manufacturing firm which used the material in considerable quantity and ordered a ton.

Nothing further is known of this Dunedin venture, nor even for what purpose the material was used. Other deposits in New Zealand have been reported from time to time and small quantities have been reported as produced, the latest information available being in 1945.

The figures, should anyone be interested are given as:

1941	60 tons	1944	19 tons
1942	47 tons	1945	2 tons
1943	209 tons		

¹Production figures are given in short tons (2000 lbs.) having been converted from the metric tons reported in publications by the Bureau of Mines.

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A FURTHER REPORT ON JAPAN

By Donald E. Lee¹

Asbestos Resources of Japan², a report by the writer published by Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers, in October 1948, discussed the Japanese asbestos mining industry from its inception thru 1947. In view of present economic developments in Japan under the so-called "Austerity Program" it seems well at this time to review development in the Industry from January 1947 to date.

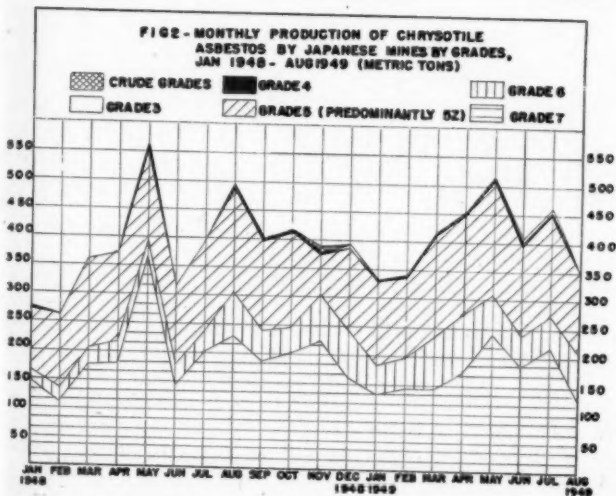
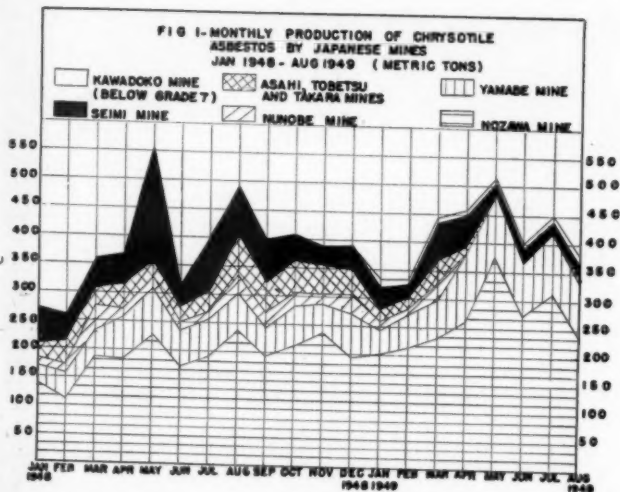
Japanese production of chrysotile asbestos in 1948 was 4,600 tons (metric tons) and the 1949 production is expected to approach 6,000 tons (Fig. 1). Except for a few tons of low grade fibre from scattered deposits, amphibole asbestos producers have remained idle because of lack of demand.

Altho the total chrysotile production has continued to show an increase over the 1946 level and the outlook for the Industry as a whole is favorable, some individual producers have had financial difficulties. Chief among these is the Nunobe mine, Hokkaido, Japan's number three producer of chrysotile fibre during 1941-47, which was forced to suspend operations in April 1949. The plight of the Nunobe mine can be attributed chiefly to the lack of a consistent working agreement with a large processing plant, for most mines since 1945 have realized little or nothing on mining operations as such, but have been sustained by factories which have realized a good profit on processing operations. At present a small maintenance crew is kept at the Nunobe mine by the Fuso Asbestos Company, pending financial arrangements which will permit resumption of mining operations temporarily because of similar difficulties. The Asahi mine, Hokkaido, has ceased operations pending further exploration.

The Yamabe mine, Hokkaido, has had a consistent

¹Scientific Consultant. Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers.

²See December 1948, January and February 1949 issues of "ASBESTOS".



production of about 60 tons per month. The overall increase in chrysotile production is mainly a reflection of the situation at the Nozawa mine, Hokkaido, where the production has had a steady upswing until it now averages about 75% of Japan's total output. Production by the Seimi mine, Shimane Prefecture, has been variable but consistent.

A new mine, the Kawadoko, in Tono-mura, Shimomashiki gun, Kumamoto Prefecture, entered the production column in January 1949 with an output that averages about 10 tons per month. The Kawadoko mine works a small, low grade deposit of chrysotile asbestos and sells its production to a nearby manufacturer of cement pipes.

All production has continued to be predominantly of grade 5Z and below, and production of fibres above grade 4 has been negligible (Fig. 2). Hokkaido producers are stockpiling grades below 7 near the mills.

Until October 1949 all chrysotile fibre production had been subject to government price controls and rationing. The general tendency of these controls was to discourage producers. However except for fibres of grades 4 and above, all controls have now been abandoned for a trial period of several months. It is expected that this will favor increased production, but this may not be apparent immediately because of the seasonal production decrease at the Hokkaido mines. Production data for October are not yet available. The Japan Mining Industry Association gives the present market prices of crude grade 1 and 2 as 588,000 yen (\$1,633) and 506,268 yen (\$1,406) a ton respectively.

There has been a strong desire for further exploration work in the area of the Nozawa, Yamabe and Nunobe mines, but lack of capital has prevented the development of a well planned and coordinated program. In July 1949 the writer spent several days in the area of these mines checking the several existing geological maps of the area, which range in scale 1:5,000 to 1:50,000, and was surprised to find that, except for certain small areas, these maps are inaccurate and extremely generalized. It

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was agreed that the construction of an accurate geological map should be the first step in a systematic exploration program. Recently the Japanese Geological Survey has set aside part of its budget for exploration work in the area of these three mines, and geological maps are presently being made on scales 1:500 to 1:5,000, the more critical areas being mapped on the larger scales. These maps will be used to plan a drilling program. Details of the drilling plans have not yet been formulated, and it is probable that further appropriations will be necessary to complete exploration work in the area, but a start has been made, and it will be interesting to see whether the low grade of the fibre production to date is representative of the quality of the whole deposit, or whether the serpentine zone contains substantial quantities of longer fibres at depth.

NEW FINISHES FOR INSULATION BOARD

The new line of Insulation Board Products recently announced by The Flintkote Company not only includes new improved colors and finishes, but features two new and distinct finishes—Leth-R-Grain Insulation Board and a new textured design on Insulation Board Plank known as Gray-tex and Green-tex.

The new Leth-R-Grain Insulation Board has a rugged, washable, scuff-resistant finish that closely resembles fine split cowhide. The large 3' x 8' and 4' x 8' boards in Morocco Red, Antique Brown and Jade Green are said to be ideal for use as wainscot decorative panels or overall wall finishes in commercial buildings, cocktail lounges, recreation rooms and dens.

The new Gray-tex and Green-tex finishes on Insulation Board Plank are beautiful and distinctive. The textured design is a step forward over the solid colors usually found on this material.

The combination of new Leth-R-Grain Insulation Board with the new Textured Design Insulation Board plank in the finishing and decorating of walls offers many beautiful possibilities in design and color.



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- Asbestos Textiles
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- Wovenstone pipe insulation
- Insutube and Thermotube pipe and tube insulation
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FIFTY-TWO YEARS SELLING ASBESTOS PRODUCTS

Frank H. Mohr has spent almost 52 years selling asbestos products—and with only one firm—Johns-Manville (or its predecessors).

Now he has retired from selling but plans to visit some of the Asbestos Centers; in fact he was in Europe last summer and plans a trip to South Africa in April.

Mr. Mohr went to work for the Manville Covering Company in Milwaukee, Wis., at the age of 13, T. F. Manville having hired him to do odd jobs around the office—he was paid \$2.00 a week.



Frank H. Mohr,

Who plans to visit

Asbestos Mines in

Various parts of the World

His next job was timekeeper, then city collector, and it was then he began to show selling ability. As he collected bills he endeavored to sell more Covering. Shortly after the bill collecting job was given to someone else and Mr. Mohr was made full time salesman in Milwaukee. From that he went to assistant branch manager and then manager, later becoming supervisor of the Milwaukee District which included Wisconsin and Upper Michigan at that time.

Mr. Mohr claims he was the man who first got Johns-Manville to make Moulded Asbestos Brake Lining.

In selling he used unique methods—for instance he wore an "oversize" watch, about 8" in diameter and when calling on a customer would flourish it and wind it with a big key in the customer's presence. "Customers never forgot that watch" says Mr. Mohr.

Mr. Mohr still lives in Milwaukee when he is home, but he loves travel and it is doubtful that he will be found at home for some time.

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MARKET CONDITIONS

GENERAL BUSINESS

It is really hard to give in a paragraph or two the situation in general business in the United States today.

So many uncertainties exist—will there be any strikes not only in my industry but in the basic industries such as steel, coal, automobile, etc., within the next year? what will Government do within the next year about taxes, and other policies affecting my business? will raw materials increase in price? will other costs mount? Those are a few of the questions business must ask before any detailed planning is possible, and—there is virtually no available answer, or at least a definite answer cannot be made.

ASBESTOS — RAW MATERIAL

A steady demand exists for all grades, and should remain constant for at least the first half of 1950.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. There appears to be some increase in demand for asbestos textiles generally. Some of the large buyers are commencing to anticipate requirements a few months in advance, which is a favorable trend.

Requests for pure cloths continue high and other grades of cloth have shown a slight increase over last month. Tapes also show a slight increase but yarn, roving and lap lag behind somewhat. It is probable however that demand for those three items will increase during the first half of 1950 over the previous time last year. Cloth is expected to show an upward trend.

Brake Lining. There is an upset thru a price war and lack of correct interpretations of volume discounts, etc.: otherwise market conditions are good. Resale business will show increase over last year but equipment sales will remain at about the same level.

These comments of course may be affected by labor strikes in the steel, coal and auto equipment fields.

Asbestos Paper and Millboard. Rehandlers and equipment buyers continue to maintain low level inventories. This now seems to be an accepted policy. There will prob-

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ably be a slight pickup in both these markets over the demand during the past several months, in the first half of 1950.

Demand is slow for *Saturated Asbestos Paper* at present but the outlook is good for the first half of 1950. In fact an increasing demand will most likely be felt after the first quarter in re-roofing work. Most of this has been postponed for a long time and a great deal of it will have to be done during the present year.

High Pressure Insulation. The current demand is reasonably steady but slightly decreased from last year. Applied work is highly competitive. Contractors appear to be taking jobs for less than seems justified by current labor costs.

As to this year indications are that demand will increase during the first six months altho the outlook is for a continuing policy of conservation on the part of re-handlers as to inventories.

Another comment says that a substantial improvement in order procurements was expected by this time but no improvement can be reported up to the present. Buying is at very low ebb and rehandlers show great reluctance to carry substantial stocks, even tho materials are available at the factory for immediate shipment. More estimating for future requirements is being done and possibly a substantial improvement in the value of orders booked will be experienced within the next sixty days. Prices seem to be reasonably firm on material sales but some very low prices have been quoted on sizable contracts.

Low Pressure Insulation. Current demand shows a slight decreasing tendency. Reasonably strong demand may be expected during this first quarter but may be substantially reduced in the second quarter.

The usual seasonal decline may bring this market to a low equal to that of 1949. Rehandlers are keeping their inventories low and this is likely to continue. Pacific Coast prices have recently been adjusted to conform with Eastern prices plus freight.

As in the case of high pressure insulation, applied work continues highly competitive.

Asbestos-Cement Products. Demand is tremendous



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for Asbestos-Cement roofing shingles and will increase during the first half of the year. Siding demand is also good, and because of price increase bookings are high. There is a growing demand for colored siding.

As to corrugated and flat materials one manufacturer tells us that they are slightly behind on shipments and are selling all they can produce. Demand will probably remain the same for the first six months and sales will equal or exceed production.

Pressure pipe demand is seasonably off in the northern states, but more water works construction is in process than would normally have been expected. Demand for sewer pipe continues strong—a reflection of the stream pollution elimination programs by many states. Flue pipe and house connection sewer pipe demand held up during the winter months, also because of the mild winter in the north which has permitted new home construction to continue at a high level.

Prices on all asbestos-cement tubular products have held at relatively firm levels during the past three or four months.

These comments are made by various executives in close contact with the several markets.

BUILDING

Construction Contracts hit an all-time high mark in 1949.

Contracts awarded for building and engineering works in the 37 states east of the Rocky Mountains in 1949 totaled \$10,359,250,000, showing a gain of 10% over 1948 and establishing a new all-time dollar volume contract record, as reported by the F. W. Dodge Corporation.

Gains late in the year brought the total of non-residential awards to within 1% of volume in this classification reported in 1948. The year's nonresidential volume was \$3,643,909,000.

Contracts for January 1950 totaled \$730,855,000, an increase of 51% over last year.

Residential contract volume amounted to \$343,501,000 in January, an 18 per cent decline from December and a gain of 116 per cent over January a year ago. Both apartment house and single-family house construction were up substantially over January 1949.

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PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons—2000 lbs.

Production—November 1949	77,355 tons
Compared with November 1948	67,454 tons

Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons—2000 lbs.

Production for October 1949	6,336.03 tons
Valued at	£326,501

Africa (Swaziland)

Production for November 1949	2,750 tons (2000 lbs.)
------------------------------------	------------------------

Union of South Africa

(Quarterly Information Report — Dept. of Mines)

Tons—2000 lbs.

2nd Quarter 1949

(April to June inclusive)

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	10,905	495	£ 8,355	7,775	£239,118
Anthophyllite ..	.....	.....	.....	.....	.....
Chrysotile	1,652	1,012	40,964	717	32,011
Cape Blue	2,498	259	7,820	2,291	110,444
Transvaal Blue	2,147	70	3,010	918	46,765
	17,202	1,836	£60,149	11,701	£428,338

AUTOMOBILE SALES

	November 1949	December 1949	Year 1949
Passenger Cars	381,951	285,930	5,108,841
Motor Trucks	72,749	66,688	1,123,736
Motor Coaches	308	369	5,511
	455,008	352,987	6,238,088

Total sales for 1948 were 5,285,425 vehicles.

These figures cover only cars made in the United States.
Published by the Automobile Manufacturers Association, New
Center Building, Detroit, Mich.

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IMPORTS AND EXPORTS



Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	October 1949 Tons (2240 lbs.)
From Canada	54,943
Mozambique	318
Australia	23
U. of S. Africa	1,066
	<hr/> 56,350
Value	\$3,776,945

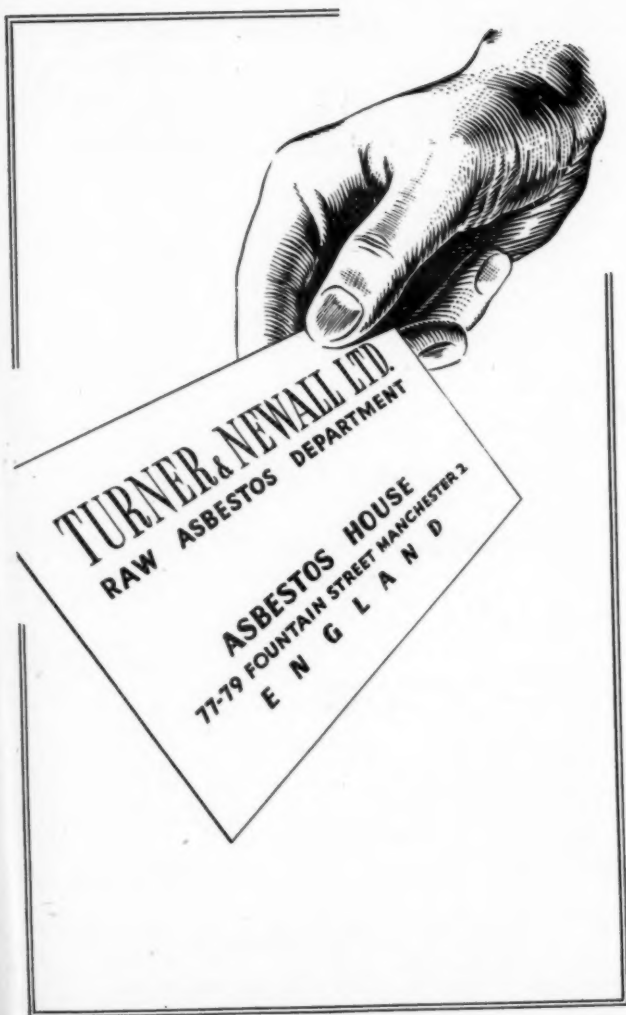
By Grades:

Crude No. 1, Chrysotile, Canada	21
Crude No. 2, Chrysotile	
Canada	30
U. of S. Africa	314
Crude—Other, Chrysotile	
U. of S. Africa	752
Crude—Blue, Australia	23
Crude—Amosite, Mozambique	318
Textile Fibres—Chrysotile, Canada	1,818
Shingle Fibres—Chrysotile, Canada	7,199
Paper Fibres—Chrysotile, Canada	5,745
Fibres—Other, Short Grades	40,130
	<hr/> 56,350

Manufactured Asbestos Goods:

	October 1949	
	Quantity (Lbs.)	Value
Asbestos Yarns		
Canada	110	66
United Kingdom	9,001	\$ 6,824
Asbestos Packing—Fabric		
United Kingdom	204	136
Asbestos Packing—Not Fabric		
Canada	208	29
United Kingdom	1,558	724
Asbestos Woven Fabric—Other		
United Kingdom	3,943	4,528
Asbestos Brake Lining—Molded		
Canada	17	14

(Continued on Page 28)



Imports Manufactured Asbestos Goods—Continued

	October 1949	
	Quantity (Lbs.)	Value
Asbestos Cement Products—Not Impregnated		
Canada	26,430	3,054
Asbestos Cement Products—Impregnated		
Canada	65	10
Asbestos Manufactures—Other		
Canada .....	....	1,916
	<hr/> 41,536	<hr/> \$17,301

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	October 1949	
	Tons (2240 lbs.)	Value
To Brazil	45	\$ 9,750
Germany	159	61,973
Netherlands	44	4,125
Portugal	178	53,500
Australia	270	78,000
India	137	37,252
Japan	310	112,435
Taiwan	63	12,100
Other Countries	4	166
	<hr/> 1,210	<hr/> \$369,301

Exports from U. S. A.—Continued

	October 1949	
	Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs. 641,757	\$ 61,205
Asbestos Textiles and Yarn	Lbs. 58,062	31,941
Asbestos Packing	Lbs. 125,628	93,677
Asbestos Brake Lng. (Mld.&S.Mld.)	Lbs. 238,551	196,603
Asbestos Brake Lng. (Woven)	L. Ft. 34,685	23,675
Asbestos Clutch Facings	No. 65,523	40,440
Asbestos Brake Blocks	Lbs. 19,441	17,762
Asbestos Construction Materials	Lbs. 3,041,199	176,684
Asbestos Manufactures—Other .....	....	30,789
		<hr/> \$672,776

FOR SALE

3156' 3½" x ½" woven, new, metallic asbestos
unfinished brake lining.

Witten Iron & Metal Co., Gastonia, N. C.

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CRUDES

and

Fiberized Asbestos

The World's Finest Fibre



DRAWER 71

GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

STATISTICS - AUSTRALIAN ASBESTOS

The following figures for production, imports and exports of asbestos for the first quarter of 1949, have been received from the Bureau of Mineral Resources, Geology and Geophysics, Department of Supply and Development, Melbourne, C. I., Victoria, Australia. All tons are long (2240 lbs.)

Production

No production of asbestos other than Crocidolite is reported in Australia (Western Australia) during the first quarter of 1949. The tonnage is given as 147.

Imports

Chrysotile	1,922 tons valued at £A 84,598
Crocidolite	None
Amosite	1,261 tons valued at £A 38,238
Other (this term is not clear)	380 tons valued at £A 13,104
	<hr/> 3,563 tons valued at £A135,940

Exports

To United Kingdom	7 tons valued at £A 884
New Zealand	1 ton valued at £A 28
Malaya ..	2 tons valued at £A 96
United States (America)	46 tons valued at £A 3,824
	<hr/> 56 tons valued at £A 4,832

See Page 25 of November 1949 "ASBESTOS" for statistics for the year 1948.

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Material.

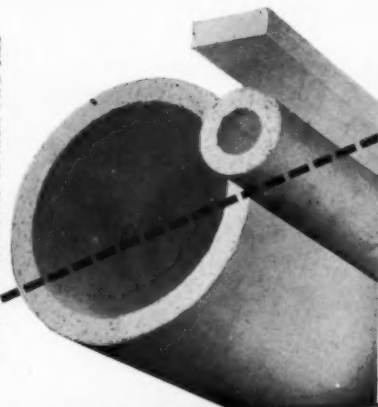
	December 1949 Tons (2240 lbs.)	Year 1949 Tons (2240 lbs.)
From Union of S. Africa	1,428	16,927
Southern Rhodesia	1,970	31,278
Bechuanaland, Basutoland and Swaziland	1,112	18,145
Canada	2,700	22,616
Other British Countries	107	2,601
Foreign Countries	1	823
	<hr/> 7,318	<hr/> 92,390

Of the December imports, 4,198 tons were of the Chrysotile variety; 3,120 tons were other varieties.

Of the 92,390 tons imported by the United Kingdom in the whole year 67,372 tons were Chrysotile; 25,018 tons other varieties.

The tabulations were supplied thru the courtesy of Mining Journal, Ltd., of London.

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THE PARAFFINE COMPANIES, INC., Insulation Division

(Formerly Plant Rubber & Asbestos Works)

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EXPORTS FROM CANADA

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos—(Tons—2000 lbs.)

	November 1949	
	Tons	Value
<i>Crude</i>		
United States	25	\$ 15,371
United Kingdom .....	.....	.....
Australia .....	.....	.....
S. America .....	.....	.....
Central America and Mexico .....	.....	.....
European Countries .....	.....	.....
Other Countries .....	.....	.....
	25	\$ 15,371
<i>Milled</i>		
United States	12,091	1,530,648
United Kingdom	2,291	283,529
Australia .....	.....	.....
S. America	920	169,617
Central America and Mexico	340	44,713
European Countries	3,113	598,756
Other Countries	1,168	158,051
	19,923	\$2,785,314
<i>Shorts</i>		
United States	40,759	1,686,977
United Kingdom	2,150	79,706
Australia .....	.....	.....
S. America	202	8,715
Central America and Mexico .....	.....	.....
European Countries	655	39,809
Other Countries .....	.....	.....
	43,766	\$1,815,207
<i>Grand Total Unmanufactured Asbestos</i>	63,714	\$4,615,892
<i>Manufactured Asbestos Goods:</i>		
Brake Lining		\$ 20,514
Packing		21,528
Other Materials		3,107
		\$ 45,149



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Mines

Thetford Mines, Quebec

Black Lake, Quebec



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CHICAGO 4, ILL.	GRANT WILSON, INC. 141 West Jackson Boulevard
NEW YORK, N. Y.	CONNELL ASBESTOS MFG. CO. 117 Martense Street, Brooklyn, 26, New York
SAN FRANCISCO, CALIF.	LIPPINCOTT CO., INC. 461 Market Street

WAGE RATES - CHANGES

The January number of the Asbestos Worker (published each quarter by the International Association of Heat and Frost Insulators and Asbestos Workers) shows the following changes in wage rates for pipe coverers since those reported in our November 1949 number.

Amarillo, Tex.	\$2.37½	Memphis, Tenn.	2.37½
Austin, Tex.	2.37½	Mobile, Ala.	2.30
Baton Rouge, La.	2.42½	New Orleans, La.	2.42½
Beaumont, Tex.	2.37½	Oklahoma City, La.	2.37½
Birmingham, Ala.	2.25	Pascagoula, Miss.	2.30
Borger, Tex.	2.37½	Pittsburgh, Pa.	2.62½
Charleston, S. C. (Ex- cept Navy Yard)	2.25	Port Arthur, Tex.	2.37½
Corpus Christi, Tex.	2.37½	Providence, R. I.	2.45
Dallas, Tex.	2.37½	Sacramento, Calif.	2.35
Des Moines, Ia.	2.25	San Antonio, Tex.	2.37½
El Paso, Tex.	2.25	San Francisco, Calif.	2.35
Fort Worth, Tex.	2.37½	Scranton, Pa.	2.25
Houston, Tex.	2.37½	Shreveport, La.	2.37½
Indianapolis, Ind.	2.37½	St. Louis, Mo.	2.50
Jackson, Miss.	2.42½	<i>Effective</i>	
Knoxville, Tenn.	2.37½	April 11, 1950	2.57½
Little Rock, Ark.	2.37½	Wilkes-Barre, Pa.	2.25

• • • —

CONSULTING SERVICES (12th Edition) contains a list, alphabetically and geographically arranged, of Consulting Chemical Engineers. There is no charge for this book, but requests must be addressed to Association of Consulting Chemists and Chemical Engineers, Inc., 50 East 41st St., New York 17, N. Y., and should mention the magazine "ASBESTOS" as being the source of your reference. Your full name and company with which you are connected should be given.

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MAGNESIA & ASBESTOS CO.

Factory

Norristown, Pa.

NEWS OF THE INDUSTRY

BIRTHDAYS

- C. J. Sherer, Vice President and Treasurer, Russell Manufacturing Co., Middletown, Conn., February 18th.
- I. J. Harvey, Jr., President and Director, The Flintkote Co., New York City, February 20th.
- Clarence E. Witherspoon, President, Asbestos Construction Co., Inc., New York City, February 20th.
- George W. Marshall, Jr., Director and General Sales Manager, Asbestos Products Division, Raybestos-Manhattan, Inc., Manheim, Pa., February 21st.
- Robert E. Cryor, Vice President, Union Asbestos & Rubber Co., Cicero, Ill., February 23rd.
- J. Albert Taylor, Vice President and Secretary, Wallace & Gale Co., Baltimore, Md., February 24th.
- A. S. Johnson, President, Johnson's Co., Ltd., Thetford Mines, P. Q., Canada, February 28th.
- Leonard Krez, President & Treasurer, Paul J. Krez Co., Chicago, Ill., February 28th.
- A. S. P. Sangster, General Works Manager, Wunderlich, Limited, Sydney, N. S. W., Australia, March 2nd.
- John H. Matthews, Vice President, Raybestos-Manhattan, Inc., Passaic, N. J., March 3rd.
- Carl Bindman, Sales Manager, Johnson's Co., Thetford Mines, P. Q., Canada, March 7th.
- M. E. Curtis, President and Treasurer, Curtis Asbestos Co., Boston, Mass., March 7th.
- George Ritter, Asbestos-Cement Associates Inc., Millington, N. J., March 9th.
- P. M. Taft, President, Taft-Jenkins Co., Holyoke, Mass., Mar. 9th.
- Thomas J. Casey, Treasurer, Asbestos Corporation of America, New York City, March 10th.
- W. L. Markert, President, Brooks-Fisher Insulating Co., Atlanta, Ga., March 10th.
- M. R. Carr, President, H. W. Porter & Co., Inc., Newark, N. J., March 11th.
- A. Lines, Superintendent Durabestos Works, Wunderlich, Limited, Parramatta, Australia, March 11th.
- James E. Wallace, Vice President, John W. Wallace & Co., Hoboken, N. J., March 11th.
- Theodore D. Wallace, Secretary-Treasurer, John W. Wallace & Co., Hoboken, N. J., March 11th.
- Harry A. Kieselbach, General Manager, Insulation Department, Johns-Manville Corp., New York City, March 14th.

We extend hearty congratulations and best wishes to the above gentlemen on the occasion of their birthdays.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

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ROVINGS POWDER CLOTHS
 PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

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This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

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NEW YORK CITY

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**C. W. HANCOCK, NORTHERN DISTRICT
MANAGER FOR PARAFFINE COMPANIES**

C. W. Hancock has just been appointed Northern District Manager for The Paraffine Companies, Inc., and, located at



C. W. Hancock

the Company's offices in Portland, Ore., will supervise sales of Pabco Building Materials in the Northwest. This announcement was made this date by L. K. Bishop, Sales Manager of Pabco's Building Materials Division.

Mr. Hancock joined Paraffine in 1939 and during the last ten years has been active in the sale of Pabco Roofings, Asbestos-Cement Products and allied Building Materials in the Western States.

**TURNER & NEWALL LIMITED
Directors' Report.**

Copy of Directors' Report for fiscal year ending September 30, 1949, has been received from Turner & Newall Limited, the annual general meeting having been held on January 26th, 1950.

The net earnings for the year (ended September 30th, 1949, were £2,602,361, from which various appropriations have been made by the Board of Directors, including Dividends (as stated below).

The Chairman's (W. W. F. Shepherd) remarks both as to the financial and other progress of the Company are interesting.

H. Hanson and R. G. Soothill, Directors of the Company since October 1st, 1942, were appointed Joint Managing Directors early in 1949.

Report is made that in the department of brake lining manufacture, a new Technical and Research Laboratory is now in use at the brake lining plant of Ferodo Limited, and the research staff is now six times as large as was employed on this important work at the outbreak of the war.

A general resume is given of all the plants owned or controlled by the company.

The Board of Directors recommended a final dividend of 11¼% on the ordinary stock making the total for the year 15%.

**MINE SAFETY APPLIANCES CO.
ESTABLISHES INTERNATIONAL DIVISION**

The Mine Safety Appliances Company of Pittsburgh, Pa., which, among other items, carries a line of asbestos clothing, has established an International Division to co-ordinate the activities of its subsidiaries in Canada, South Africa and Great Britain, and to continue the activities of the company's present Export Department.

C. M. Donahue is Manager of the new Division, in addition to his present duties as Manager of the Mining Division. H. E. Edenbaugh has been made Assistant Manager of the International Division.

ASBESTOS FIBRE SHINGLE GRADES

**A NEW MODERN ASBESTOS PLANT
WITH REVOLUTIONARY EQUIPMENT**

Your inquiries are invited.



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Main Office:

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**MARTIN V. COFFEY MADE
GENERAL SALES MANAGER CAREY**

Martin V. Coffey, formerly sales manager of Carey's Miami-Cabinet Division, has been appointed General Sales Manager of the Company, with headquarters in Cincinnati.

Mr. Coffey joined the Miami-Cabinet Division in 1923 as a salesman in New York City. In 1924 he was appointed Eastern district sales manager and in 1926 sales manager with offices at Middletown, Ohio. He was appointed director of sales training in 1949.

In addition to his prominence in the building materials field, Coffey is widely known in American Legion circles thruout the nation and at present he is serving as chairman of the Presidential Board of Appeals of the National Selective Service.

Mr. Coffey is an honorary life member of the Ohio Federation of Labor, A. F. of L., honorary life member of the Junior Chamber of Commerce of the United States, a member of the Society of Military Engineers of the United States and the American Ordnance Association.

**PHILLIP D. CANNON, V. P.
JOHNS-MANVILLE PRODUCTS CORP.**

Announcement is made of the appointment of Phillip D. Cannon as Vice President of Johns-Manville Products Corporation, and Production Manager of the Industrial Products Division.

Mr. Cannon, formerly Manager of the company's Industrial Products plant at Manville, N. J., succeeds Alexander Cromwell, who resigned recently to accept a position with a steel fabricating company.

Mr. Cannon's responsibilities will include production supervision over Johns-Manville industrial products at Billerica, Mass., Nashua and Tilton, N. H., Manville and New Brunswick, N. J., Marrero, La., Redwood City and Watson, Calif., Richmond, Ind., Waukegan, Ill., and Zellenople, Pa.

Since joining Johns-Manville in 1920 at Manville, N. J., Mr. Cannon has held responsible posts there and at the company's Waukegan, Ill., plant. He is a graduate of Philadelphia Textile Institute and a veteran of World War I.

ARTICLES

Britain's Central African Colonies Hold Promise for the Future in the January 9th issue of *Foreign Commerce Weekly*, published by the Department of Commerce, Washington, D. C., makes mention of Asbestos as being produced in Southern Rhodesia, but will be interesting to our readers as giving local color on that part of the world in which we are interested because it contains an asbestos producing center.

Industrial Friction Materials in the January issue of *Durez Plastics News*, calling attention to the use of Durez materials by The Thermoid Company.

"Tropag"

ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.
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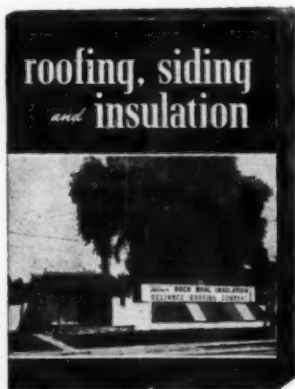
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JOHNS-MANVILLE—Annual Report

Consolidated net earnings of Johns-Manville Corporation in 1949 were \$14,368,926 or \$4.85 per share of common stock, compared with \$15,440,475 or \$5.22 per share in 1948, according to the 91st anniversary annual report.

The 1949 earnings were equivalent to 8.9 cents in the sales dollar.

Sales amounted to \$162,580,782, compared with \$173,458,033 in 1948.

Before taxes of all kinds, 1949 earnings were \$25,256,912, which was \$2,826,305 less than in 1948. All taxes amounted to \$10,887,986 in 1949, including \$7,880,000 levied on United States and Canadian income. In 1948 they were \$12,642,742, including \$9,660,000 levied on income.

The payroll in 1949 was \$60,684,190 compared with \$66,063,575 in 1948. Employment at the end of 1949 was 18,500.

Consolidated income account for the year, compared with 1948, is given below.

	1949	1948
Sales, less discounts and allowances	\$162,580,782	\$173,458,033
Mfg. Cost, selling and admin. ex., etc., exclusive of taxes	137,323,870	145,374,816
	25,256,912	28,083,217
Income and other taxes	10,887,986	12,642,742
	14,368,926	15,440,475
Dividends	7,539,875	6,069,516
Earnings of year reinvested in business	6,829,051	9,370,959
Prior earnings of subsidiary not previously consolidated		33,215
Earnings reinvested as at beg. of year	39,500,620	30,096,446
Earnings reinvested as at end of year	\$ 46,329,671	\$ 39,500,620

J. E. HOLBROOK SPEAKS AT AMERICAN MANAGEMENT CONFERENCE

J. E. Holbrook, Vice President of The Paraffine Companies, Inc., was on the program of the American Management Association's mid-winter conference held at San Francisco, January 18th to 20th. His subject was "Marketing Problems and Opportunities for Management."

YORK ASBESTOS CO. TO ACQUIRE RAHN LAKES PROPERTY

York Asbestos Mines, Limited, has been formed to acquire the 840-acre property formerly owned by Rahn Lakes Mine Corporation, in Bannockburn and Montrose Township, Ontario.

We understand a group of eight claim holders have consolidated their holdings and call them the Midlothian asbestos group.

NORTH AMERICAN MINERAL & ASBESTOS CORP.

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**EXPORTERS • IMPORTERS
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**GEORGE K. FOSTER MADE
PRODUCTION MANAGER**

George K. Foster has been promoted to Production Manager of the Asbestos Fibre Division of Canadian Johns-Manville Company, Ltd. He was formerly Mine Manager of the Company's Jeffrey Mine at Asbestos, Que., occupying that position for the past four years. He will make his headquarters in Montreal.

Mr. Foster's new duties will include supervision of the operations, planning and future development of the mining and milling facilities of the Asbestos Fibre Division. He joined Canadian Johns-Manville in 1939, as Mine Consultant; in 1944 was made Chief Engineer of the Mine Division and in 1945 was appointed a Vice President of Canadian J-M and manager of the Jeffrey Mine. Mr. Foster, prior to his connection with Johns-Manville, had extensive mining experience thruout Canada and other countries.

**KARL V. LINDELL, MANAGER
J-M Jeffrey Mine**

Karl V. Lindell has been promoted to Manager of the Canadian J-M Jeffrey Mine at Asbestos, P. Q.

Mr. Lindell joined Canadian J-M in 1945 as Mine Superintendent for the Company's underground operations at the Jeffrey mine and later was advanced to Plant Engineer. Previously he was Assistant to the General Superintendent of Mines for International Nickel Company of Canada, Ltd.

**ROBERT D. BAKER, MANAGER,
J-M's Munro Asbestos Mine**

Robert D. Baker has been appointed as Manager of J-M's new Munro asbestos mine near Matheson, Ontario. Mr. Baker joined Canadian Johns-Manville in 1946 as Mining Engineer at the Jeffrey Mine. In 1947 he was made Assistant Mine Superintendent of the mine and in 1949 was assigned duties in connection with the development of the new mine near Matheson. He has been associated with various mining companies in Quebec and British Columbia as a mining engineer.

**DONALD A. FRULAND, ASSISTANT TREASURER
THERMOID COMPANY**

The Directors of Thermoid Company at a meeting held in Wilmington, Del., recently, elected Donald A. Fruland Assistant Treasurer. Mr. Fruland was also appointed Director of Purchases.

The naming of Fruland to the Assistant Treasurer's post makes him an officer of the Company, succeeding the late Harry W. Searfoss. Mr. Fruland first joined the purchasing staff of Thermoid Company in 1947, having previously been with the Gulf Oil Corporation as Marine Purchasing Agent in New York City.

**EMIL J. HOUSER APPOINTED
ASST. PURCHASING AGENT — THERMOID**

Emil J. Houser was officially appointed Assistant Purchasing Agent for Thermoid at a recent meeting of the Company.

ACE ASBESTOS MANUFACTURING CO.



Importers, Exporters, Processors of
Asbestos Fibres of All Varieties

of
RAW ASBESTOS
for
Every Use

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CHRYBOTILE
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originating in
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Large Capacity Fiberizing and
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JOHNS-MANVILLE TO REDEEM CERTAIN PREFERRED STOCK

The Board of Directors of Johns-Manville Corporation has voted to call for redemption all of the approximately 65,500 shares outstanding of 3½% Cumulative Preferred Stock. The action is contingent upon the conclusion of satisfactory underwriting arrangements by the company and clearance with the Securities and Exchange Commission.

The shares will be redeemed on and after March 6, 1950. The stock will be convertible up to the close of business March 6, into three shares of common for one of preferred by surrendering the preferred and paying an additional \$15. per share with respect to each share of preferred surrendered for conversion. The redemption price is \$102 plus accrued dividends of 34c per share.

A dividend of 50c per share has been declared on the common stock, to holders of record on February 27, therefore holders of preferred who have converted to common by that date will be entitled to the dividend.

CAPE ASBESTOS COMPANY New Directors.

Two new directors were appointed (at the end of November) to the Board of The Cape Asbestos Company, Limited—Lord Elton and Mr. George Courtauld.

Lord Elton is eminent as a scholar, author and broadcaster and for his part in public affairs. Among his many activities he is Secretary of the Rhodes Trustees.

Mr. George Courtauld is known and respected over a wide field of industry and finance.

DR. SHAW ADDRESSES

N. J. Mineralogical Society

Dr. Myril C. Shaw, Secretary of the Asbestos Textile Institute, on February 7th addressed the New Jersey Mineralogical Society, of Plainfield, N. J., on the subject "The Mineralogy and Chemistry of the Asbestiform Minerals."

STOCK'S UNIVERSAL PIPE MAKING MACHINE

now in 3 sizes and FULLY AUTOMATIC. Makes Asbestos-Cement Pressure Pipes with or without collar. Soil Pipes and Pipes with Sockets.

ALL DIAMETERS (2" to 48")

ALL LENGTHS (6' to 20')

ALL PRESSURES (50 to 200 lbs. per sq. inch)

Simple in operation, can be seen working in Venice, Italy. Quick deliveries. (5 Pressure Pipe Plants on order.) American & British Patents applied for.

ALSO MODERN ASBESTOS OPENERS, STEEL MANDRELS,
SHEET MAKING PLANTS AND ACCESSORIES.

STOCK'S ENGINEERING CO. (Inc. DURITE TECNICA)

24 Via di Cavana, Trieste, Italy

Cables: STOCKSDURITE—TRIESTE

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Method and Apparatus for Expansion of Fibrous Mass. No. 2,486,217. Granted on October 25, 1949 to Robert E. Slack, Plainfield, and Lee M. Hedges, Somerville, N. J. Assignors to Johns-Manville Corp. Application July 20, 1945. Serial No. 606,247.

Self Aligning Shingle. No. 2,487,593. Granted on November 8, 1949 to William L. Rowe, New York City, assignor to Johns-Manville. Application April 5, 1948. Serial No. 18,957.

Method of Preparing Oxidized Drying Oil. No. 2,488,680. Granted on November 22, 1949 to Izador J. Novak, Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Application April 30, 1947. Serial No. 745,107.

Roofing. No. 2,488,887. Granted on November 22, 1949 to Howard S. Adams, Mt. Lebanon, Pa. Application Oct. 14, 1947. Serial No. 779,693.

Insulation Duct. No. 2,489,048. Granted on November 22, 1949 to Evan Rinehart, Port Washington, N. Y. Assignor to Johns-Manville. Application December 3, 1947. Serial No. 779,693.

In an air duct or the like, a lining therefor comprising self-sustaining, semi-rigid, sound-absorbing and heat insulating slabs including bottom, side and top slabs and means resiliently forcing said side slabs outwardly toward the sides of the duct to maintain them in position.

Apparatus for Forming Pipe Covering Sections. Granted on November 22, 1949, to Howard W. Collins, Newark, Ohio. Assignor to Owens-Corning Fiberglas Corporation. Application May 13, 1944. Serial No. 535,524.

Composition Roofing. No. 2,490,430. Granted on December 6, 1949 to Harold W. Greider, Wyoming, Ohio, and George Arthur Fasold, Mt. Healthy, Ohio. Assignors to the Philip Carey Mfg. Co., Application August 6, 1943. Serial No. 497,806. Contains Asbestos Fibre.

Insulating Paper of Asbestos and Bentonite. 2,493,604. Granted on January 3, 1950, to Theodore R. Walters, Pittsfield, Mass., assignor to General Electric Co., Application November 6, 1944. Serial No. 562,275.

A thin flexible insulating inorganic paper, having a sufficiently high tensile strength and flexibility to be wrapped on electric conductors and being capable of being folded upon itself without breakage, said paper consisting by weight of 5 to 35 parts bentonite and 95 to 65 parts asbestos fibres which are devoid of

soluble impurities and conducting particles and which have a maximum diameter of 0.02 mil, said bentonite being associated with a sufficient amount of a water-soluble salt selected from the class consisting of the acetates and nitrates of copper, lead and chromium, to cause the bentonite particles to agglomerate upon and adhere to the asbestos fibres, the said paper being stronger than a similar paper free of bentonite.

Apparatus for Bonding Brake Linings to Brake Shoes. No. 2,494,281. Granted on January 10th to Clyde S. Batchelor, Upper Stepney and Edward Carey, Bridgeport, Conn., assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Application May 13, 1948. Serial No. 26,810.

TRADE MARKS

The following Trade marks have been recently passed for publication by the U. S. Patent Office. If further information is desired we shall be glad to supply it.

Yankee Published September 6, 1949. Serial No. 532,109. Beacon Sales Co., Charlestown, Mass. For waterproof compound in plastic and liquid form containing asphalt and asbestos for general roofing and waterproofing purposes.

Celosteel Published August 30, 1949. Serial No. 555,374. The Celotex Corporation, Chicago, Ill. For partition wall constructions.

Triple A (design) Published November 15, 1949. Serial No. 519,716. Atlantic Asphalt & Asbestos, Inc., Stratford, Conn. For roofing and siding products, made preferably of asphalt and/or asbestos, or like material—namely asphalt shingles, and rolled left roofings and siding shingles or asphalt and asbestos-cement types.

— . . . —

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AFTERTHOUGHTS

¶ Foam rubber presser pads used by dry cleaning plants, hotels, tailors and garment manufacturers, are made by the United States Rubber Company and have packaged with them a scorch resistant, porous *Asbeston* pad.

¶ Another manufacturer of Asbestos Rugs (see inquiry in our December 1949 number, Page 51) is Bell's Asbestos and Engineering Limited, Bestobell Works, Slough, Bucks, England. These are made in several colors. Further information will be given to anyone interested. Write either the manufacturer or "ASBESTOS".

¶ Help us to check and keep uptodate our birthday list. Are there any names mentioned on page 36 which, because they have left the Industry for other fields, should not be there?

¶ On page 30 of our January 1950 number we mentioned De Luxe Flexboard; on page 14 of this issue we tell of new finishes for insulation board. Will other firms report to us any new finishes of any asbestos product, or improvement of an asbestos product in any way? This will help keep all our readers uptodate on new or improved asbestos products.

¶ CARE AND REPAIR OF THE HOUSE issued by the U. S. National Bureau of Standards, explains in non-technical language the common and recurring problems of the homeowner in keeping his house and its equipment in good condition. It is obtainable from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., at 50c a copy. Ask for National Bureau of Standards Circular 489.

¶ And don't forget to send us news items, particularly changes in personnel, promotions. Photos can often be used also.

¶ A committee is a meeting of important people who single can do nothing, but together can decide that nothing can be done.

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each
Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. \$1.00 per set.

Asbestos: A Magic Mineral, by Lillian Holmes Strack. Written for school children but should be in every Asbestos library. \$1.00 per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished product, in plain language, illustrated, 25c a copy.

Order any of the above from "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa. Postage stamps acceptable for amounts less than \$1.00.

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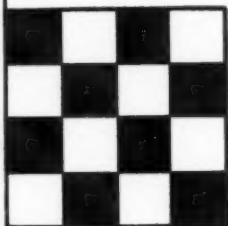
As of February 10, 1950

Canada—		Per Ton (2000 lbs.) f.o.b. Mine	
Group No. 1 (Crude No. 1)	\$960.00 to	\$1,050.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	.....	400.00 to	550.00
Group No. 3 (Spinning Fibre)	.....	232.00 to	425.00
Group No. 4 (Shingle Fibre)	.....	95.50 to	141.00
Group No. 5 (Paper Fibre)	.....	78.50 to	88.00
Group No. 6 (Waste, Stucco or Plaster)	.....		58.00
Group No. 7 (Refuse or Shorts)	.....	28.00 to	52.00
Vermont—		Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 4 (Shingle Fibre)	.....	\$111.50 to	\$124.00
Group No. 5 (Paper Fibre)	.....	79.00 to	96.50
Group No. 6 (Waste, Stucco or Plaster)	.....		59.00
Group No. 7 (Refuse or Shorts)	.....	28.50 to	52.50

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness).

January 1950				
	Par	Low	High	Last
Armstrong Cork (Com)	np	48	52	49¼
Armstrong Cork (Pfd)	np	100½	101¾	101
Armstrong Cork (Conv.Pfd)	np	111¼	114	113
Asb. Corp (Com)	np	24¼	26	25¼
Asb. Mfg. Co. (Com)	1	1½	1¾	1½
Celotex (Com)	np	18¾	21	20¾
Celotex (Pfd)	20	17	17½	17½
Certainteed (Com)	1	15	17¾	17¼
Flintkote (Com)	np	30¾	33¾	32¾
Flintkote (Pfd)	np	104½	107	106½
Johns-Manville (Com)	np	45½	49¾	47½
Johns-Manville (Pfd)	100	122¾	135	125¾
Paraffine (Com)	np	18½	21¼	18½
Paraffine (Pfd)	100	100	103	102½
Ray-Man (Com)	np	27½	29¾	29
Ruberoid (Com)	np	55	58½	56¼
Thermoid (Com)	1	5½	6¾	6
Thermoid (Pfd)	50	36	38¼	38¼
Union Asb.&Rub (Com)	5	12	13¾	12½
United Asb. (Com)	1	55c	71c	60c
U. S. Gypsum (Com)	20	110	120¼	114
U. S. Gypsum (Pfd)	100	182½	186½	184½
U. S. Rubber (Com)	10	37¼	41¾	41
U. S. Rubber (Pfd)	100	126¾	130½	128¾



NO

The code flag above is the international signal for "No." It's a flag you'll never see flying above the research departments of Raybestos-Manhattan. We welcome those who seek new products from asbestos. Our answer to requests for cooperative research is in the affirmative.

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Asbestos Textile Division • Mannheim, Pa.

Factories: Mannheim, Pa.; No. Charleston, S.C.



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